

# **Gleason-type theorem for linear spaces over the field of four elements**

Mushtari D.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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## **Abstract**

We prove an analog of the famous Gleason theorem for additive functions on the orthomodular poset of all projections defined on an  $n$ -dimensional linear space over the field consisting of four elements. An essential part of the proof consists in a computer calculation.

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